

CMZ Derived from Multiple Sources:  
 -Floodway data from FEMA Q3 FIRM 1996 and Draft Army Corps  
 Flood maps for Skamokawa and Elochoman Rivers 2012  
 -Levee/Dikes Ecology 2012  
 -Erosion Hazards  
 -Roads, Wahkiakum County

## Wahkiakum & Cathlamet SMP Update (Map 11): Channel Migration Zones







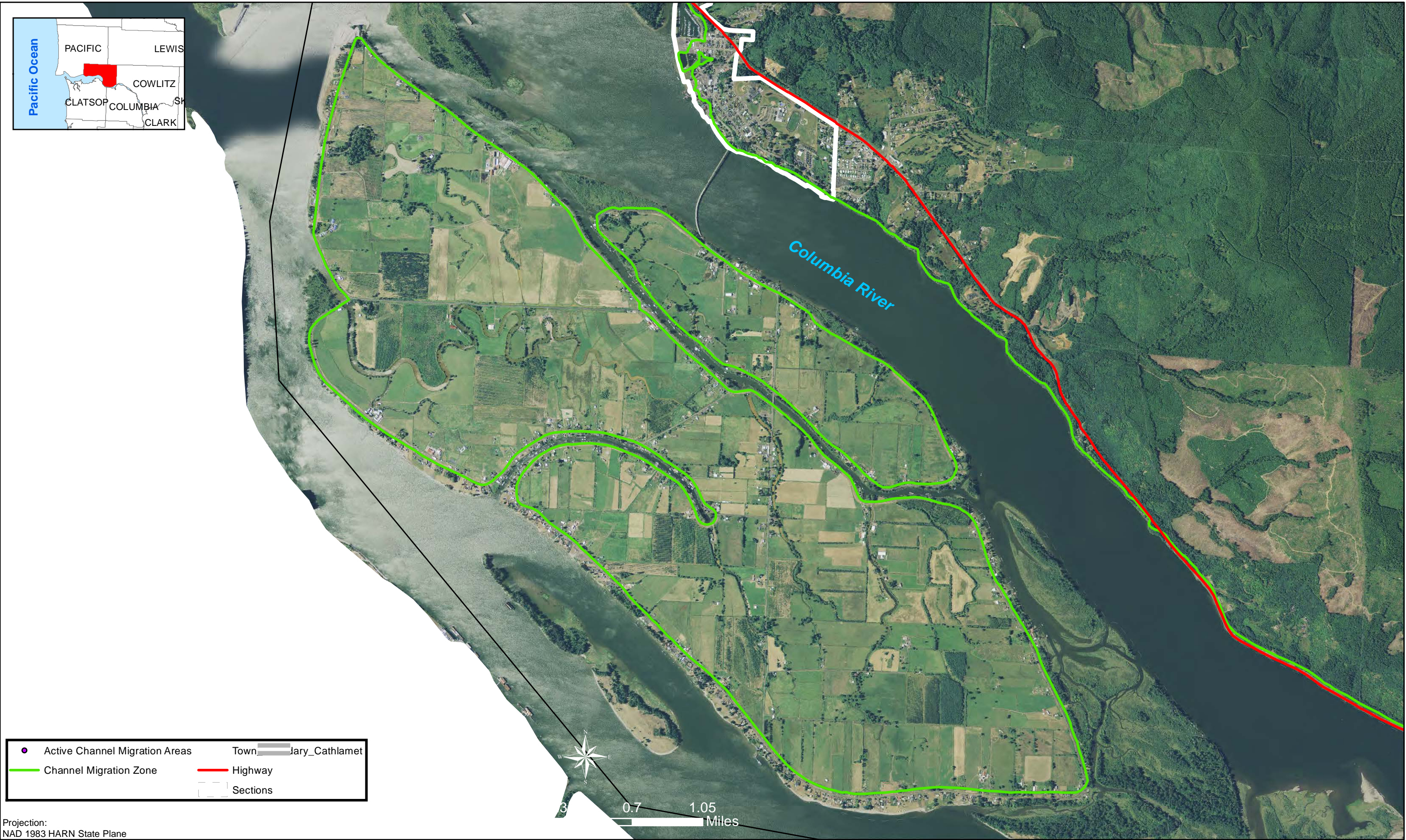
● Active Channel Migration Areas	Town boundary_Cathlamet
— Channel Migration Zone	— Highway
	— Sections

Projection:  
NAD 1983 HARN State Plane

CMZ Derived from Multiple Sources:  
-Floodway data from FEMA Q3 FIRM 1996 and Draft Army Corps  
Flood maps for Skamokawa and Elochoman Rivers 2012  
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-Erosion Hazards  
-Roads, Wahkiakum County

# Wahkiakum & Cathlamet SMP Update (Map 12): Cathlamet Channel Migration Zones





Active Channel Migration Areas

Channel Migration Zone

Town

Jary\_Cathlamet

Highway

Sections

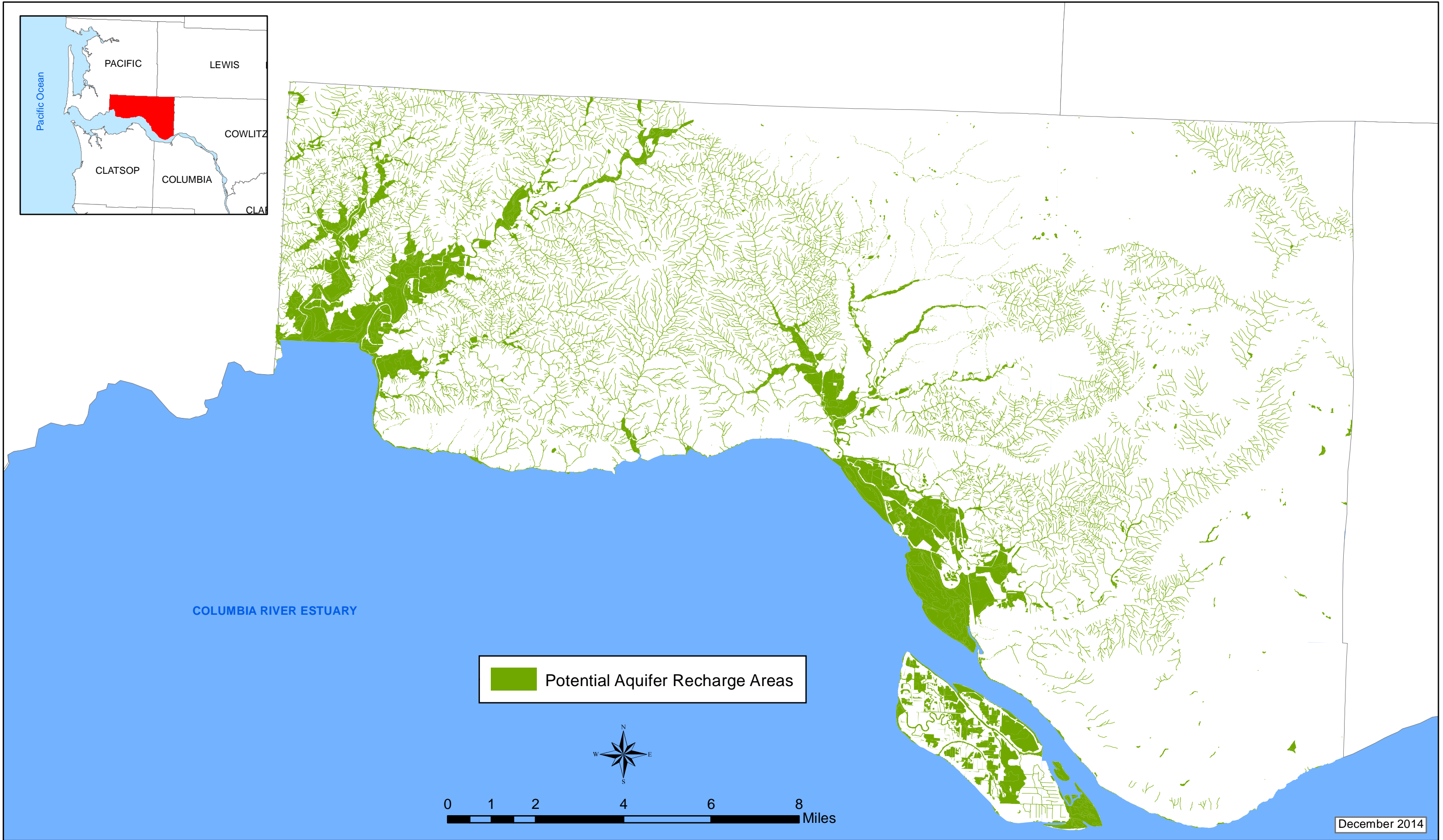
Projection:  
NAD 1983 HARN State Plane

CMZ Derived from Multiple Sources:  
-Floodway data from FEMA Q3 FIRM 1996 and Draft Army Corps  
-Flood maps for Skamokawa and Elochoman Rivers 2012  
-Levee/Dikes Ecology 2012  
-Erosion Hazards  
-Roads, Wahkiakum County

Wahkiakum & Cathlamet SMP Update (Map 12): Puget Island Channel Migration Zones

February 2015



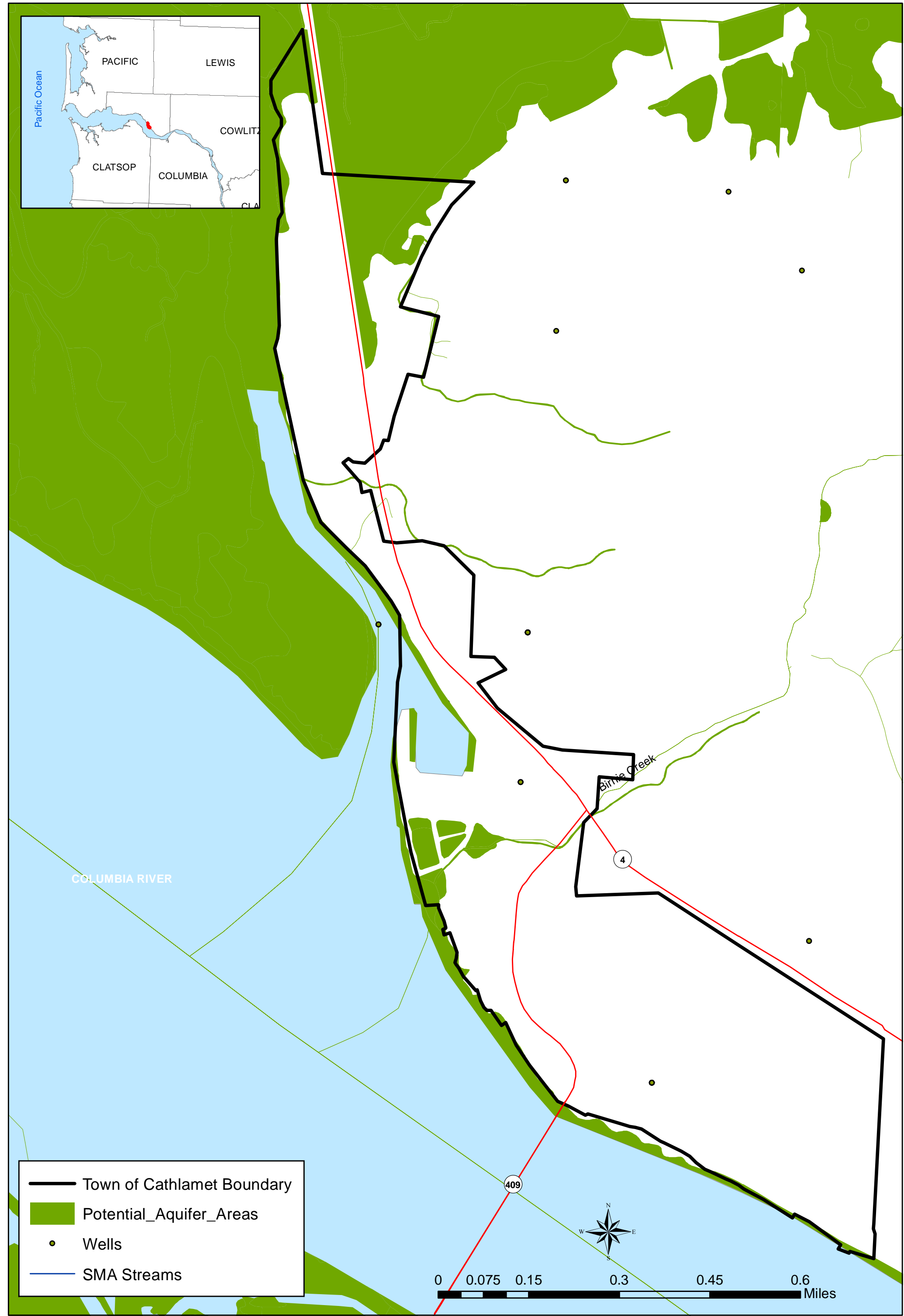


Data Source:  
Well Logs 7\_14\_2014 Ecology  
USFWS NWI 2012  
Landslide Haz. WDNR/CREST 2006  
Streams NHD dataset 2012  
PHS WDFW  
SWIFD WDFW  
FEMA 100-yr flood

Identified critical areas include NWI wetlands, Land Slide Hazard Areas, and Priority Habitats and Species within the areas in green. Potential critical areas include aquifer recharge areas. For this map, wetlands and NHD streams serve as recharge areas and were clipped to a Geology with high permeability data layer. Further site specific/field evaluations of critical areas are necessary on a project by project basis.

## Wahkiakum & Cathlamet SMP Update (Map 14): Potential Aquifer Recharge Areas





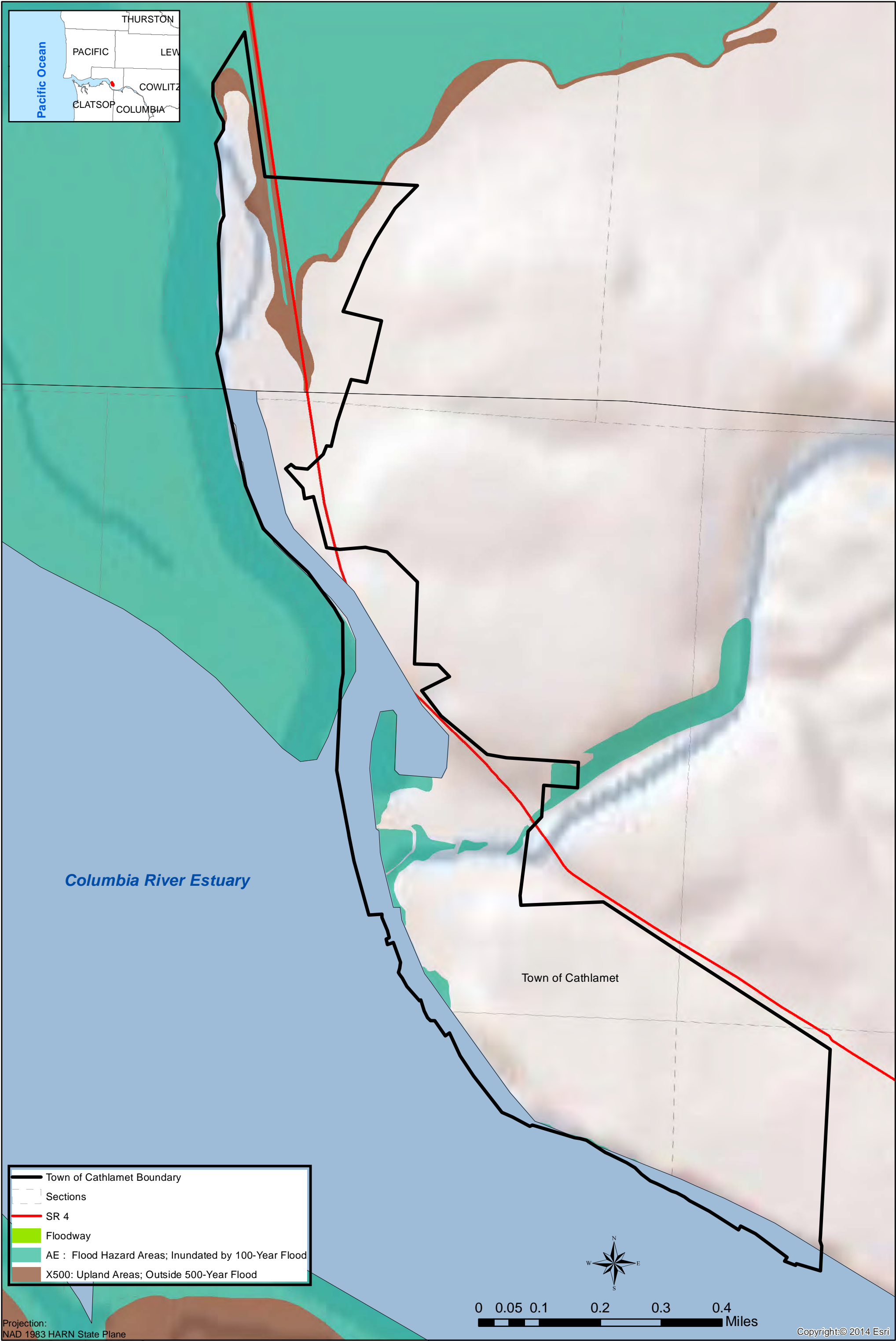
Data Source:  
Well Logs 7\_14\_2014 Ecology  
USFWS NWI 2012  
Landslide Haz. WDNR/CREST 2006  
Streams NHD dataset 2012  
PHS WDFW  
SWIFD WDFW  
FEMA 100-yr flood

Identified critical areas include NWI wetlands, Land Slide Hazard Areas, and Priority Habitats and Species within the areas in green. Potential critical areas include aquifer recharge areas. For this map, wetlands and NHD streams serve as recharge areas and were clipped to a Geology with high permeability data layer. Further site specific/field evaluations of critical areas are necessary on a project by project basis.

December 2014







Projection:  
NAD 1983 HARN State Plane  
Flood Risk Derived from Multiple Sources:  
FEMA Q3 FIRM 1996  
Army Corps Flood Maps for Skamokawa and Elochoman Rivers 2012  
Roads, Wahkiakum County

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December 2014

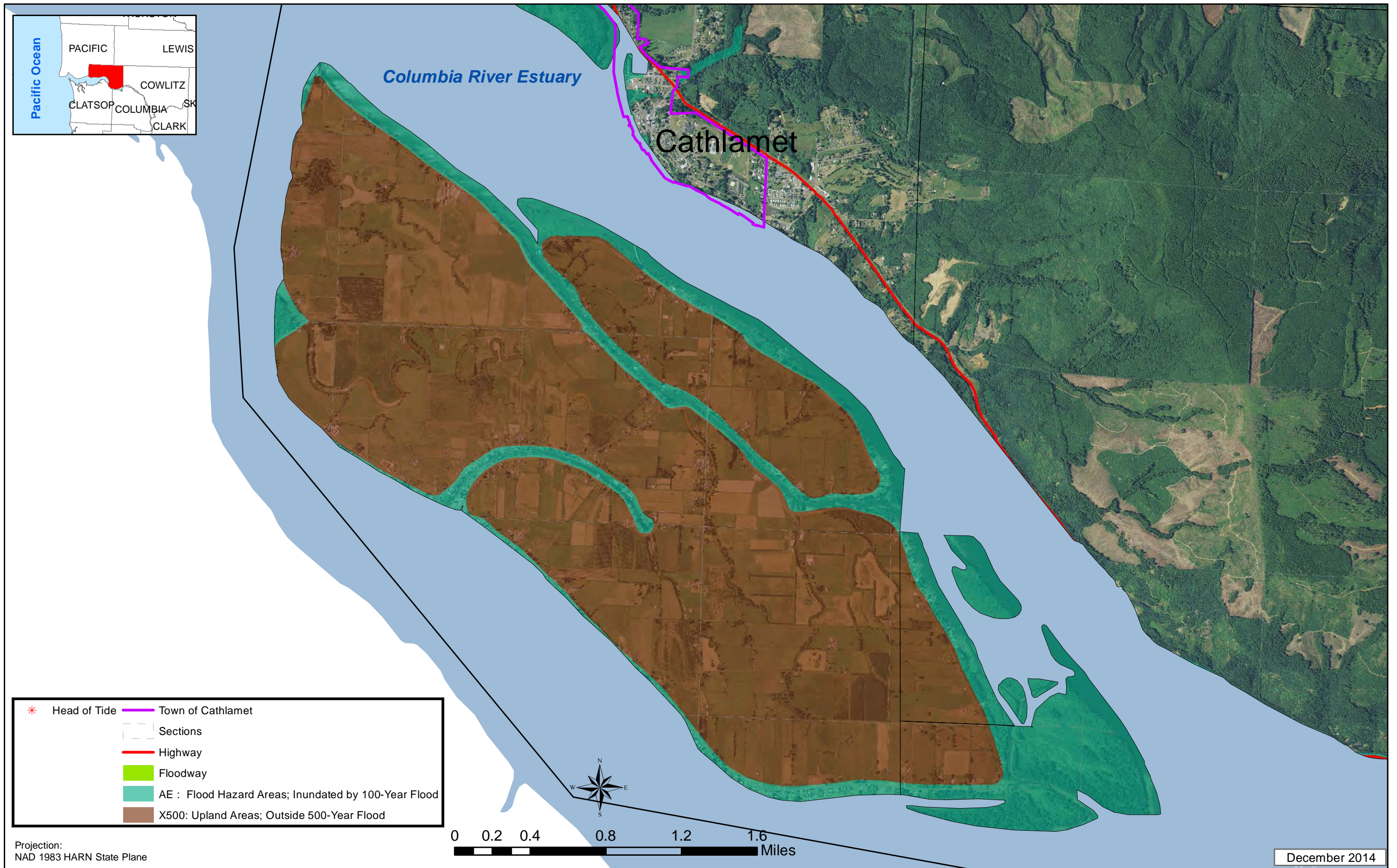
### Wahkiakum & Cathlamet SMP Update (Map 16): Flood Risk









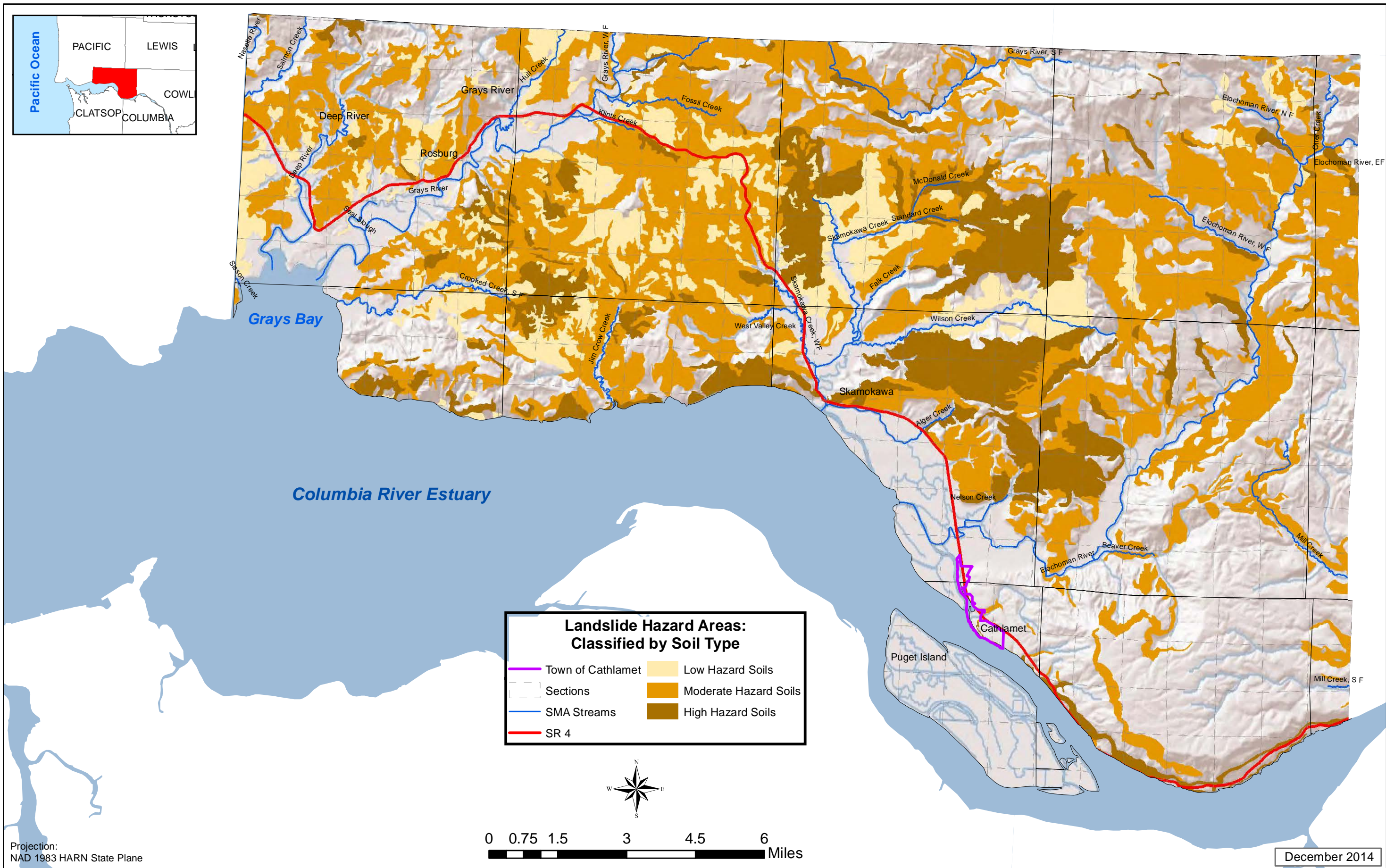


Flood Risk Derived from Multiple Sources:  
 FEMA Q3 FIRM 1996  
 Army Corps Flood Maps for Skamokawa and Elochoman Rivers 2012  
 Heads of Tide (Approximate) Derived from LCEP Land Cover Data  
 Roads, Wahkiakum County

## Wahkiakum & Cathlamet SMP Update (Map 18): Flood Risk - Puget Island





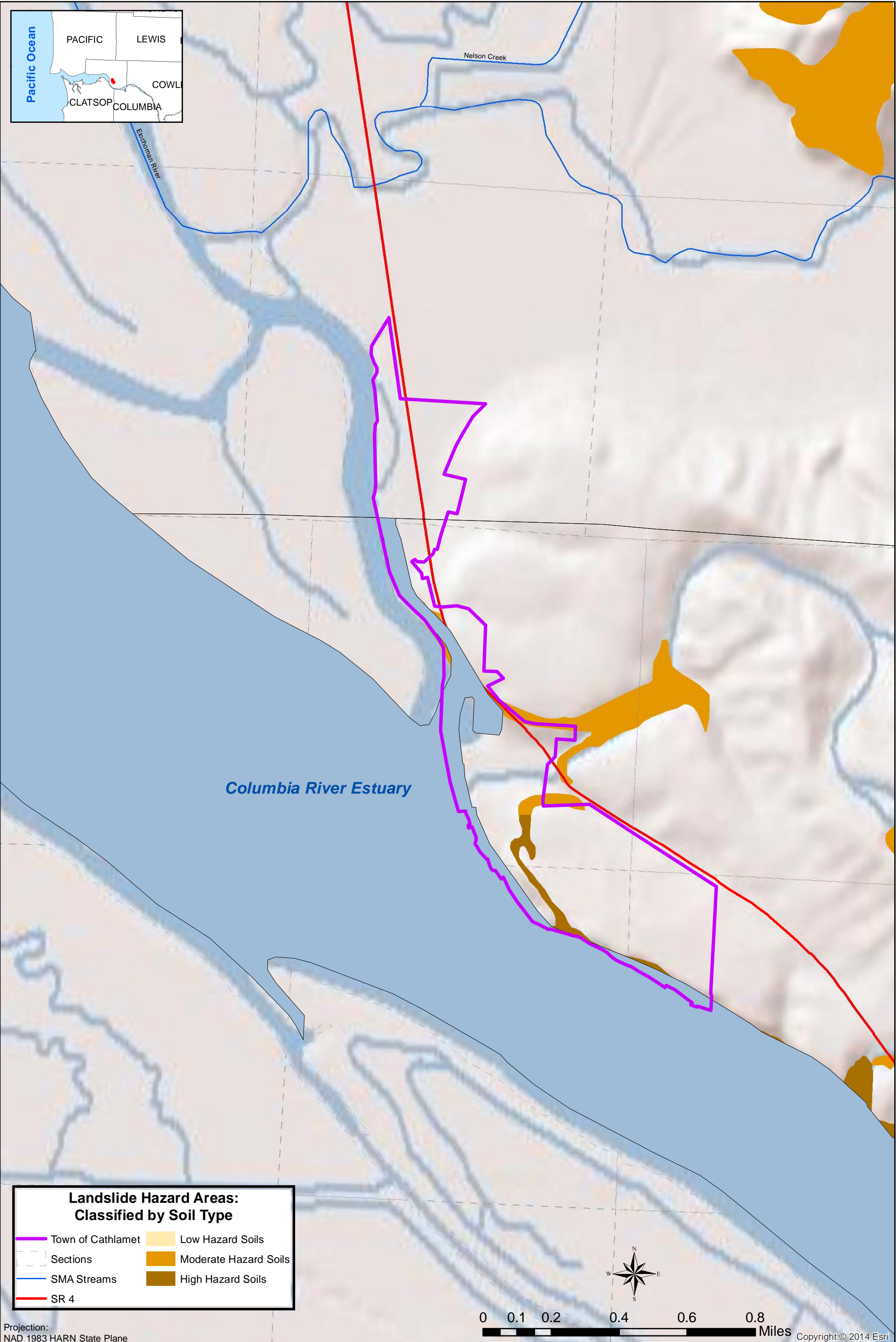


Data Source:  
Soils, USDA NRCS 1986  
Landslide analysis, CREST 2006  
Roads, Wahkiakum County  
Suggested SMA Streams, Ecology 2012

## Wahkiakum & Cathlamet SMP Update (Map 19): Landslide Hazard Areas







Data Source:  
Soils, USDA NRCS 1986  
Landslide analysis, CREST 2006  
Roads, Wahkiakum County  
Suggested SMA Streams, Ecology 2012

Wahkiakum & Cathlamet SMP Update (Map 20): Landslide Hazard Areas